

WHAT IS CLAIMED IS:

1. A motor comprising:

a rotor equipped with a magnet;

5 a stator yoke having claw poles generally in a comb shape disposed opposing to one another and arranged in a cylindrical shape extending in an axial direction and around an outer periphery of the rotor in a circumferential direction;

a bobbin formed from a coil wound around the stator yoke; and

10 a cylindrical motor case that houses the rotor, the stator yoke and the bobbin, the cylindrical motor case being formed from conductive material, wherein the motor case has side wall sections defining plane opening sections in areas opposing to portions of the bobbin, and an outer peripheral surface of the coil of the bobbin is located in close proximity to the opening sections.

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2. A motor according to claim 1, wherein the side wall sections of the motor case have bent sections that are discontinuous in the circumferential direction and formed adjacent to edge sections of the opening sections.

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3. A motor according to claim 1, wherein the motor case is formed from magnetic material and also functions as a part of the stator yoke.

25 4. A motor according to claim 1, wherein the stator yoke is formed from a A-phase block and a B-phase block.

5. A motor comprising:

a rotor equipped with a magnet;

a stator yoke having claw poles generally in a comb shape disposed opposing to one another and arranged in a cylindrical shape extending in an axial direction and around an outer periphery of the rotor in a circumferential direction;

- 5        a bobbin formed from a coil wound around the stator yoke; and  
          a cylindrical motor case that encircles the rotor, the stator yoke and the bobbin, the cylindrical motor case being formed from conductive material, wherein the motor case has side wall sections defining plane opening sections in areas opposing to portions of the bobbin, and a part of an outer peripheral  
10      surface of the coil of the bobbin protrudes from the opening sections.

6.       A motor according to claim 5, wherein the side wall sections of the motor case generally coincide with mutually parallel planes tangential to an outer periphery of the coil of the bobbin.

15      7.       A motor according to claim 5, wherein the motor case is formed from magnetic material and also functions as a part of the stator yoke.

20      8.       A motor according to claim 5, wherein the stator yoke is formed from a A-phase block and a B-phase block.

9.       A motor comprising:  
          a rotor equipped with a cylindrical magnet magnetized in multiple poles;

25      first and second stator yokes, each of the first and second stator yokes having two sets of claw poles disposed opposing to one another and arranged in a cylindrical shape extending in an axial direction and around an outer periphery of the rotor in a circumferential direction of the rotor;

first and second bobbins, each of the first and second bobbins formed from a coil wound around each of the first and second stator yokes, respectively; and

5       first and second motor cases being formed from conductive material  
and coupled to one another, the first and second motor cases housing the  
rotor, the first and second stator yokes and the first and second bobbins,  
wherein the first and second motor cases define generally parallel planes in  
close proximity to an outer periphery of the coils of the first and second  
bobbins, and have side wall sections extending in close proximity to the  
10      parallel planes and defining opening sections, and the outer periphery of the  
coils of the first and second bobbins is located in close proximity to the  
parallel planes that define the opening sections.

15      10.     A motor according to claim 9, wherein the generally parallel  
planes of the first and second motor cases are generally tangential to the  
outer periphery of the coils of the first and second bobbins.